A SYSTEM AND METHOD FOR STRATEGIC POWER SUPPLY SEQUENCING
IN A COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

A system and method are provided for strategic power supply sequencing in a computer system. The system and method includes a plurality of processing resources that process data and a plurality of power supplies that provide power for the processing resources. A power management engine adjusts the power supplies in response to processing resource changes to optimize power consumption. The power management engine brings online power supplies to meet the demand created by bringing online additional processing resources and brings offline power supplies to meet the decreased demand caused by a decrease in the number of processing resources. Also, the power management engine rotates which power supplies operate to take advantage of more efficient power supplies and to extend the lives of the power supplies. The power management engine also adjusts the power supplies in advance based upon predicted demand levels for the computer system.